From kd5byb at kd5byb.net Sun Nov 2 16:32:47 2014
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 02 Nov 2014 15:32:47 -0600
Subject: [BoatAnchors] Navy RU-18 and RU-19 Receiver Manual
Message-ID: <5456A2FF.9060405@kd5byb.net>

Good afternoon all,

Spent a portion of this afternoon feeding my RU-18 and RU-19 manual to
the scanner. It can be downloaded here:

<http://www.kd5byb.net/RU/RU-18_RU-19.pdf>

thanks much and 73,
ben, kd5byb

From garygarlic at earthlink.net Sun Nov 2 18:32:46 2014
From: garygarlic at earthlink.net (Gary Woods)
Date: Sun, 02 Nov 2014 18:32:46 -0500
Subject: [BoatAnchors] 10MHz osc module to good home
Message-ID: <hffd5a147p3a7gj1de4gavhukb1hqqbc5j@4ax.com>

Cleaning out stuff, and have to admit I don't need this:
"Ovenaire" module (TCXO, not oven) on plugin PC board, roughly 3X5" with
TTL buffer. Needs +12 and +5, marked on the board, to run. Zeros nicely
against WWV. Yours for a the price of a small USPS flat-rate box
($5something).
Good stories always welcome.

--
Gary Woods AKA K2AHC- PGP key on request, or at home.earthlink.net/~garygarlic
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

From ken at w2krh.com Sun Nov 2 19:23:14 2014
From: ken at w2krh.com (Ken Hall)
Date: Sun, 02 Nov 2014 19:23:14 -0500
Subject: [BoatAnchors] 10MHz osc module to good home
Message-ID: <5456CAF2.8070905@w2krh.com>

Gary,

If you still have it, I'd like to have the TCXO.

73,
Ken

W2KRH

> On 11/2/2014 6:32:46 PM, Gary Woods via BoatAnchors
(boatanchors at theporch.com) wrote:
> > Cleaning out stuff, and have to admit I don't need this:
> "Ovenaire" module (TCXO, not oven) on plugin PC board,
roughly 3X5" with
> TTL buffer. Needs +12 and +5, marked on the board, to
run. Zeros nicely
> against WWV. Yours for a the price of a small USPS
flat-rate box
> ($5something).
> Good stories always welcome.
>
>
> --
> Gary Woods AKA K2AHC- PGP key on request, or at
home.earthlink.net/~garygarlic
> Zone 5/4 in upstate New York, 1420' elevation. NY WO G
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
>

From beckrep at citlink.net Mon Nov 3 12:16:12 2014
From: beckrep at citlink.net (Paul Beckwith)
Date: Mon, 03 Nov 2014 10:16:12 -0700
Subject: [BoatAnchors] Navy RU-18 and RU-19 Receiver Manual
In-Reply-To: <5456A2FF.9060405@kd5byb.net>
References: <5456A2FF.9060405@kd5byb.net>
Message-ID: <mailman.337.1415034918.227.boatanchors@theporch.com>

Thanks, Ben!

That will be very useful to me.

73's de Paul K2LMQ Kingman, AZ

At 02:32 PM 11/2/2014, Ben Hall via BoatAnchors wrote:
>Good afternoon all,
>
>Spent a portion of this afternoon feeding my RU-18 and RU-19 manual

>to the scanner. It can be downloaded here:
>
><http://www.kd5byb.net/RU/RU-18_RU-19.pdf>
>
>thanks much and 73,
>ben, kd5byb

From wb0eq at yahoo.com Thu Nov 6 00:13:30 2014
From: wb0eq at yahoo.com (John Sehring)
Date: Wed, 5 Nov 2014 21:13:30 -0800
Subject: [BoatAnchors] DHeath DX-100B
Message-ID: <1415250810.61693.YahooMailNeo@web160804.mail.bf1.yahoo.com>

My buddy saved a Heathkit DX-100B from going to the dump. I got it gratis from him as it then showed up in the trunk of my auto.

The condition of the rig is only poor to fair, it is rough & been roughly treated. Somebody did some butchery, front panel has an added meter (silly!). VFO dial is screwed up. Circuit breaker or push button switch added to front panel as well. Chassis quite dirty, some rust.

There's no way I would fire this unit up using just a variac. I'd want to do the full suspended animation emergency room revival on it.

I haven't looked below the chassis to ck to quality of the wiring job, but I will do that quite soon. I hope not to find blow torch style assembly there.

But I'd say it's restorable, as it's complete.

BTW I note that DX-100-plain paperwork is available for free on the web but not DX-100B--that must be the copyright issue.

Even tho the price is right(free!) I want prospectives to know what they're getting into.

No way I'm going to ship this baby, pick up only, south of Calgary, Alberta.

If there are multiple wanters, I'll impose "Rules of Ware"--whoever's got the best story gets it.

--John Sehring VE6EQR-WB0EQ nr Calgary, Alberta, Canada

From arc5 at ix.netcom.com Thu Nov 6 00:17:57 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Wed, 5 Nov 2014 23:17:57 -0600
Subject: [BoatAnchors] Western Electric 227B Marine Radio Telephone Lives!
Message-ID: <40A5AC212E014CD791220D8273C577C4@DaddyPC>

Western Electric 227B Marine Radio Telephone Lives!

Well I never did find a diagram for this little cutie, but
I wasn't about to let it sit there and laugh at me
and give me the finger.
 I by golly was gonna FIX-IT and I did!
Here's a photo of the 12-Volt-operated little stinker:
http://home.netcom.com/~arc5/WECO_227B.JPG
The front panel is beautiful. Mike Hanz explained to me
how they anodized it and all. It has the look of shiny
glass, kiln-fused Enamelware to me. Pretty.

It's designed to be a close-range transceiver very much
like a sea-going "Command Set." 4 channels.
Transmitter is crystal control.
Receiver either tunable over 2-3 MC or via xtal.
Supposed to operate as much like a regular telephone
as possible. Used for talking to harbor control
or the tug next door.

The transmitter is a simple 6L6 power xtal oscillator
modulated by another 6L6.
It uses a very cool "stone-age" 1930s WECO E-3 handset
with a big honking carbon element.
Getting the TX running was just a matter of refurbing
the vibrator supply, changing the electrolytics and one
bad resistor in the modulator. Have xtals for 3885
and 3870. Going to try programmable oscillators for
3880 and 3890. PA tank/output is a lot like the
tank for the BC-230 except much more "picky."
Took awhile but it's perking along at 7 Watts out,
which ain't bad for a power Xtal oscillator with
only 300 volts B+.

I scratched my head over the receiver for awhile and
wondered if someone had taken
 "The Golden Screwdriver"to it at one time.
 It is a simple thing: no RF Amp,

6K8 converter, 6K7 IF, 6Q7 Detector/AVC/1st Audio
and single-ended 6V6 Audio Out. But it gets "hinky."
Receiver was dead and some of the connections made
no sense- why does the AVC line go to +70 V from
the B+ voltage divider resistor stack??
Never did figger-out that one.
I measured the 6K7 cathode and it was showing
like 180 V to ground, so obviously I'm missing
a ground here somewhere. Didn't seem to be a
"mute" circuit. So I just jumpered the "cold" end
of the IF cathode resistor to ground and
the receiver arose from the dead.

Measuring the OSC freq at what should have been
the 2 MC point on the dial confirmed that the "385"
marked on the side of the IF cans was the IF freq.
The IFs tweaked-up without incident.
The 6Q7 1st Audio is wired as a cathode-follower
to feed the 6V6. That threw me off for a little while.

The antenna was connected directly to the 6K8 grid
with only a single tuned tank in the grid circuit, which
was of course so loaded and low-Q that adjustments
were almost pointless. Setting the frequency range
of the receiver was just a matter of tweaking the
"band set" cap in the OSC section. Putting it up
on 3-4 MC was just a single "tweak."
Of course, with the grid so loaded, the thing was
deaf as a post. I suppose that was intentional, since
it was intended for very short ranges and the 2-4 MC
Maritime Band in the 1930s and 1940s could be a
mad house of QRM. You wouldn't want your
"telephone" to be all that sensitive.

I removed the antenna connection from the 6K8
grid circuit. Wound 8-9 turns on the "cold" end
of the grid tank to ground and hooked the antenna there.
The receiver came alive, the grid tank peaked sharp
and it receives nicely now for so simple a design.
AVC action has a lot of range, as one would
expect in something designed for this service.
Only down-side is very "tight" or fast tuning.

Programmable oscillators provide enough drive to
run the receiver "xtal control." $4 a channel.
Beat that, International Crystals ;-)
Going to channelize the little set on
3870, 3880, 3885 and 3890 KC,

which covers 90% of the AM activity here.
The oscillators will need switching and some "boost"
to run the transmitter. I have transmitter crystals
for 3870 and 3885, but will need the oscillators
for 3880 and 3890.

Tonight, I hooked the little rig to my dipole,
put it on 3885 and made "first contacts" with it.
The little 7 watts got decent reports from Texas,
Oklahoma, Missouri, Arkansas and an extended
QSO with K4KYV in north central Tennesse.
Not bad.

Guys, when I manage to bring one of these nice
old radios back from the gathering darkness,
I feel just like this:
http://home.netcom.com/~arc5/happyboy.mp3

73 DE Dave AB5S

From dave at horsfall.org Thu Nov 6 00:43:23 2014
From: dave at horsfall.org (Dave Horsfall)
Date: Thu, 6 Nov 2014 16:43:23 +1100 (EST)
Subject: [BoatAnchors] Build your own fire-bottle audio amplifier
Message-ID: <alpine.BSF.2.00.1411061634240.1220@aneurin.horsfall.org>

OK, technically not an anchor (although those transformers must weigh a
bit), but the Aussie "Silicon Chip" magazine (www.siliconchip.com.au) is
doing a series on a DIY hollow-state audio amplifier, utilising 12AX7s and
6L6s.

Perfection.

--
Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
http://www.horsfall.org/spam.html (and check the home page whilst you're there)

From arc5 at ix.netcom.com Thu Nov 6 00:53:36 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Wed, 5 Nov 2014 23:53:36 -0600
Subject: [BoatAnchors] Build your own fire-bottle audio amplifier
In-Reply-To: <alpine.BSF.2.00.1411061634240.1220@aneurin.horsfall.org>
References: <alpine.BSF.2.00.1411061634240.1220@aneurin.horsfall.org>
Message-ID: <F36EAF87E91C404EA1DF05A95C507D49@DaddyPC>

----- Original Message -----
From: "Dave Horsfall via BoatAnchors" <boatanchors at theporch.com>

> OK, technically not an anchor (although those transformers must
> weigh a
> bit), but the Aussie "Silicon Chip" magazine
> (www.siliconchip.com.au) is
> doing a series on a DIY hollow-state audio amplifier, utilising
> 12AX7s and
> 6L6s.

I dunno... a "Currawong" sounds kinda kinky.

From arc5 at ix.netcom.com Thu Nov 6 01:16:36 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Thu, 6 Nov 2014 00:16:36 -0600
Subject: [BoatAnchors] P.S. Western Electric 227B Accessory
In-Reply-To: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
References: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
Message-ID: <40555799EB4C410E86929104979D390B@DaddyPC>

P.S.
Now I'm looking for this Radio Compass accessory
for the WECO 227.
http://tinyurl.com/prv566m

Come on, ya'll... You know you have one in the
storage shed out back. ;-)

73 Dave S.

From johnmb at nc.rr.com Thu Nov 6 06:34:43 2014
From: johnmb at nc.rr.com (john)
Date: Thu, 06 Nov 2014 06:34:43 -0500
Subject: [BoatAnchors] Western Electric 227B Marine Radio Telephone
 Lives!
In-Reply-To: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
References: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
Message-ID: <6.2.1.2.2.20141106062911.0444b430@pop-server.nc.rr.com>

At 12:17 AM 11/6/2014, you wrote:
>Western Electric 227B Marine Radio Telephone Lives!

>
>
>Here's a photo of the 12-Volt-operated little stinker:
>http://home.netcom.com/~arc5/WECO_227B.JPG
>The front panel is beautiful. Mike Hanz explained to me
>how they anodized it and all. It has the look of shiny glass, kiln-fused
>Enamelware to me. Pretty.

HubbaHubbahubba !

That's a great job Dave, on a very obscure rig. You're not going to bump
into too many of those during a roundtable on 75. The handset is awesome.
If Frank was still with us, he'd have one tucked neatly under the dash of
the Frazer.

Thanks for taking the time to share this.revival.

John K5MO

From arc5 at ix.netcom.com Thu Nov 6 08:45:23 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Thu, 6 Nov 2014 07:45:23 -0600
Subject: [BoatAnchors] Western Electric 227B Marine Radio Telephone
    Lives!
In-Reply-To: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
References: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
Message-ID: <A7AD27C963A946958EC6934874EBF0B5@DaddyPC>

Several people now have asked me about these programable
oscillators. In some applications, they have enough juju
"out of the box" to drive an oscillator stage.
In others, they'll need some help.
But they're cheap so fiddling with them is easy.
Just don't hook them up backwards, pop a high
DC voltage at the input or run VCC much over 6V.
If you do, they will *poof* and wing their way to
Silicon Heaven.

I like to use the EPSON 8002 series through-hole,

CMOS oscillators. I get them from Digikey.
I don't care about "jitter" or "noise" or any of
that other stuff. They just work.
$4.10 each and they will do single quantities.
You tell them the freq you want *in Mhz*
(they don't know KCs) in the "notes" section of the
order form and they will program them for you.
They've always shipped same day for me.
Here's a link to the kind I like, though many others
would probably work OK:
http://www.digikey.com/short/784vdq

I've found you can run Vcc on these
up to 6 volts to get a little more "juju" out without harming
them. I use a little "buck" converter to bring the 12 volt
buss down to VCC.   Dropping resistor creates
too much heat and I don't like waste anyways ;-)
You can get them on Ebay cheap as dirt.
There are lots of them. Here's one:
http://www.ebay.com/itm/311161462956

The little oscillators don't put out much but you can bet
the signal is spot-on. Someone wrote me about a
military SSB transceiver that was going to need hundreds
of bucks in crytals.
He ordered these, piped them in and his rig is cooking.
Another gentleman is going to try them in a AN/TRC-77.
Seem to drive receiver-type circuits OK directly
with only a DC blocking cap on the output-
I use like .004 just because I have them.
I'd bet in sandy-state OSC circuits,
they'd have plenty of drive.

GL OM ES 73 DE Dave AB5S

From ranickel at comcast.net Thu Nov 6 10:34:38 2014
From: ranickel at comcast.net (Robert Nickels)
Date: Thu, 06 Nov 2014 09:34:38 -0600
Subject: [BoatAnchors] Western Electric 227B Marine Radio Telephone
    Lives!
In-Reply-To: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
References: <40A5AC212E014CD791220D8273C577C4@DaddyPC>
Message-ID: <545B950E.5070707@comcast.net>

On 11/5/2014 11:17 PM, David Stinson via BoatAnchors wrote:
> Western Electric 227B Marine Radio Telephone Lives!

Very nice Dave, congrats! The styling reminds me of the Hudson
American Privateer III, which is the prettiest-looking one I've converted:

http://i.imgur.com/ZFF9FKG.jpg

Radios like this were styled to look like they belonged on a fancy
yacht. Now if I just had a Hudson American mic ;-)

73, Bob W9RAN

From richardlo at admin.athabascau.ca Thu Nov 6 12:11:23 2014
From: richardlo at admin.athabascau.ca (Richard Loken)
Date: Thu, 06 Nov 2014 10:11:23 -0700 (MST)
Subject: [BoatAnchors] DHeath DX-100B
In-Reply-To: <1415250810.61693.YahooMailNeo@web160804.mail.bf1.yahoo.com>
Message-ID: <Pine.PMDF.4.44L.1411061008050.1235-100000@admin.athabascau.ca>

On Wed, 5 Nov 2014, John Sehring via BoatAnchors wrote:

> My buddy saved a Heathkit DX-100B from going to the dump. I got it gratis
> from him as it then showed up in the trunk of my auto.

My gosh John, that is a lovely find.

I have DX100 here that has been sleeping for way too long at the bottom of
the roundtoit pile. Like yours it is modified but the mods are fully
documented genuine Heath recommended changes plus equally legitimate changes
that make it work with the SB-10 which I also have.

I really must retire so I can shrink the roundtoit pile.

--
   Richard Loken VE6BSV, Unix System Administrator : "Anybody can be a father
   Athabasca University   : but you have to earn
   Athabasca, Alberta Canada   : the title of 'daddy'"
   ** richardlo at admin.athabascau.ca **   : - Lynn Johnston

From adh_bmh_hubbard at msn.com Thu Nov 6 15:45:51 2014
From: adh_bmh_hubbard at msn.com (Al Hubbard)
Date: Thu, 6 Nov 2014 12:45:51 -0800
Subject: [BoatAnchors] Schematic for 1962 Chevrolet Impala Radio
Message-ID: <BLU437-SMTP844CFEBCAB7809987C2A27A5840@phx.gbl>

Can anyone please direct me to where I might find a schematic diagram for a 1962 Chevrolet Impala transistor radio? I know it's not tube based but it's certainly old :-)

Al Hubbard

WA0PGC

From johnmb at nc.rr.com Thu Nov 6 17:37:03 2014
From: johnmb at nc.rr.com (john)
Date: Thu, 06 Nov 2014 17:37:03 -0500
Subject: [BoatAnchors] Western Electric 227B Marine Radio Telephone Lives!
In-Reply-To: <545B950E.5070707@comcast.net>
References: <40A5AC212E014CD791220D8273C577C4@DaddyPC> <545B950E.5070707@comcast.net>
Message-ID: <6.2.1.2.2.20141106173634.0444f2f0@pop-server.nc.rr.com>

At 10:34 AM 11/6/2014, Robert Nickels via BoatAnchors wrote:

>Radios like this were styled to look like they belonged on a fancy
>yacht. Now if I just had a Hudson American mic ;-)

Or a fancy yacht!

John

From spr at earthlink.net Thu Nov 6 20:15:01 2014
From: spr at earthlink.net (Scott Robinson)
Date: Thu, 06 Nov 2014 17:15:01 -0800
Subject: [BoatAnchors] Schematic for 1962 Chevrolet Impala Radio
In-Reply-To: <BLU437-SMTP844CFEBCAB7809987C2A27A5840@phx.gbl>
References: <BLU437-SMTP844CFEBCAB7809987C2A27A5840@phx.gbl>
Message-ID: <545C1D15.2070908@earthlink.net>

Sams Photofacts will have it, but you need the model number and
manufacturer (probably Delco, but not certainly) of the radio.

Regards,

Scott

On 11/6/14, 12:45 PM, Al Hubbard via BoatAnchors wrote:
> Can anyone please direct me to where I might find a schematic diagram for a
> 1962 Chevrolet Impala transistor radio? I know it's not tube based but it's
> certainly old :-)
>
>
>
> Al Hubbard
>
> WA0PGC
>
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>

From arc5 at ix.netcom.com Fri Nov 7 23:19:20 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 7 Nov 2014 22:19:20 -0600
Subject: [BoatAnchors] Programmable Osc. Booster : Western Electric 227B
Message-ID: <0442BF95021A410DB3B5DEED315C16E5@DaddyPC>

While the programmable oscillators we've been discussing
will push the receiver fine, driving the transmitter 6L6 power
oscillator takes a little more "push."
I built a simple Class-D MOSFET stage with a 4:1
autotransformer UNUN output. It drives the set well.
Here's the circuit:

http://home.netcom.com/~arc5/oscbrd.jpg

One "kink": the toroid I used was a "junkbox" find.
I don't know it's specs. The first two I tried were too
"lossy." This one works well but I need to find out
what the heck it is so I can get some more.

Anyone know how to classify an unknown toroid?
If not, what toroid do you think would work as well?

73 DE Dave AB5S

From arc5 at ix.netcom.com Sat Nov 8 09:51:22 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 8 Nov 2014 08:51:22 -0600
Subject: [BoatAnchors] P.S. Kudos to Nick Broline
Message-ID: <7BC2DB7F199C4790BC99B87B1ED709D6@DaddyPC>

Forgot to credit Nick Broline from Austin.
Without him taking his time to educate me
on the differences in MOSFETs,
I'd probably never have gotten the thing to work.

TNS ES 73 OM DE Dave AB5S

From pmiddleton at niu.edu Sat Nov 8 15:49:53 2014
From: pmiddleton at niu.edu (Peter Middleton)
Date: Sat, 08 Nov 2014 14:49:53 -0600
Subject: [BoatAnchors] Help with posting
Message-ID: <545E2D9102000000100039004@smtp2.gw.niu.edu>

Could someone please remind me how to post something to the boatanchors list?

Thank you,

Peter
K6UN0

From k1lky68 at gmail.com Sat Nov 8 15:59:43 2014
From: k1lky68 at gmail.com (Roy Morgan)
Date: Sat, 8 Nov 2014 15:59:43 -0500
Subject: [BoatAnchors] Help with posting
In-Reply-To: <545E2D9102000000100039004@smtp2.gw.niu.edu>
References: <545E2D9102000000100039004@smtp2.gw.niu.edu>
Message-ID: <18555E17-2578-43C9-A999-B994B8D02E0F@gmail.com>

On Nov 8, 2014, at 3:49 PM, Peter Middleton via BoatAnchors <boatanchors at theporch.com> wrote:

> Could someone please remind me how to post something to the boatanchors list?

Peter,

you just did.

Whatever you did, do that again :-)

Basically, you simply send your email to:

boatanchors at theporch.com

and it will automagically appear on the list - that is, sent to everyone on the list. (If you are not a subscriber, it might not get sent out. If you are sending an email from an address other than the one you are subscribed with, it may not go out.)

HOWEVER, it can happen that the sender does Not get a copy of the email he/she sent even though everyone else does. This happens to me on the glow bugs list, and I have not found a way yet to get the list system to send me a copy of what I post. There is a way to set that, I?m pretty sure.

Roy

Roy Morgan
RoyMorgan at alum.mit.edu
K1LKY Since 1958

From gumbear at pacbell.net Sat Nov 8 19:24:44 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Sat, 8 Nov 2014 16:24:44 -0800
Subject: [BoatAnchors] Programmable Osc. Booster : Western Electric 227B
In-Reply-To: <0442BF95021A410DB3B5DEED315C16E5@DaddyPC>
References: <0442BF95021A410DB3B5DEED315C16E5@DaddyPC>
Message-ID: <3BC3F0A43BAD4D4989DB97B6C03D8CD0@KB6NAX>

> .....Anyone know how to classify an unknown toroid?
If not, what toroid do you think would work as well?

Most toroids we run into these days use cores formulated for efficiencies in the ultrasonic to low MHz for use in switching power supplies and line filters. For RF you need formulas for HF to VHF. Look at Amidon products for RF cores. Core types are somewhat standardized across manufacturers.

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant

From arc5 at ix.netcom.com Sat Nov 8 23:24:23 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 8 Nov 2014 22:24:23 -0600
Subject: [BoatAnchors] Prog. Oscillator in WECO 227B
Message-ID: <45540098B6C543DDA32174F6E0EBA343@DaddyPC>

Well here's the first "operational prototype" for the
transmitter crystal substitute.   I just did a single TX
channel for this first go. The parts are on
one side of the board and the ferrites on the other.
The toroid core turned-out to be an Amidon FT82-61.

Here's the top side of the board:
http://home.netcom.com/~arc5/oscbrdtop.jpg

And here's the bottom.
http://home.netcom.com/~arc5/oscbrdbtm.jpg

Shielded wire takes output to the XTAL socket.
An extra set of contacts on the "CHANNEL switch
connects the 12-volt ground on CHAN 4 (3890 KC)
to enable the board. It works splendidly.
Key-down for two minutes does make the heat sink
warm but not too hot to hold. Not terribly efficent
but simplicity is the goal, so there are trade-offs.

73 DE Dave AB5S

From kd5byb at kd5byb.net Sun Nov 9 13:53:14 2014
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 09 Nov 2014 12:53:14 -0600
Subject: [BoatAnchors] SCR-183 Manuals
In-Reply-To: <CAETC+7Ou-td5BV2bVL5WgG2syDhhpMbycCP5_RvOSqEtigG1cA@mail.gmail.com>
References: <CAETC+7MpyxBvcE9nwXUGvGLpPyM=z318hy7JqH-gT1OX7rFsjA@mail.gmail.com>
     <545C2B6F.8020403@gmail.com>
 <CAETC+7Ou-td5BV2bVL5WgG2syDhhpMbycCP5_RvOSqEtigG1cA@mail.gmail.com>
Message-ID: <545FB81A.3020604@kd5byb.net>

Afternoon all,

As some may have read on the ARC-5 list, the CECOM Historian scanned a whole bunch of SCR-183 manuals they had in their collection for me. After much fighting my webpage...here they are! Enjoy!

Also included are a couple of Signal Corps equipment catalogs that may be of use to other folks as well.

thanks much and 73,
ben, kd5byb

<http://www.kd5byb.net/BC230/1943-06-01_No_19.pdf>

<http://www.kd5byb.net/BC230/Inst_SCR-AC-183_1942.pdf>

<http://www.kd5byb.net/BC230/Inst_SCR-AK-183_Jan_1939.pdf>

<http://www.kd5byb.net/BC230/Inst_SCR-AK-183_Jun_1939.pdf>

<http://www.kd5byb.net/BC230/Inst_SCR-AL-183_SCR-AL-283.pdf>

<http://www.kd5byb.net/BC230/SCR-183-T-5.pdf>

<http://www.kd5byb.net/BC230/SCR-19-183_and_AD-192.pdf>

<http://www.kd5byb.net/BC230/SCR-AA-182_and_AA-183_June_1932.pdf>

<http://www.kd5byb.net/BC230/SCR-AA-192_-183_Feb_1932.pdf>

<http://www.kd5byb.net/BC230/SCR-AB-183_AA-185_AA-187_Jun_1934.pdf>

<http://www.kd5byb.net/BC230/SCR-AC-183_Mar_1934.pdf>

<http://www.kd5byb.net/BC230/SCR-AD-183_and_AD-192.pdf>

<http://www.kd5byb.net/BC230/SCR-AG-183_and_AC-187_Nov_1935.pdf>

<http://www.kd5byb.net/BC230/SCR-AH-183_Nov_1935.pdf>

<http://www.kd5byb.net/BC230/SCR-AJ-183_Aug_1937.pdf>

<http://www.kd5byb.net/BC230/Signal_Comm_Equip_Dir_April_1943.pdf>

<http://www.kd5byb.net/BC230/Signal_Corps_General_Catalog_1940.pdf>

<http://www.kd5byb.net/BC230/tr_1210-1_scr-aa-183_and_-aa-192.pdf>

From ddillman at igc.org Mon Nov 10 14:59:03 2014
From: ddillman at igc.org (Richard Dillman)
Date: Mon, 10 Nov 2014 11:59:03 -0800 (GMT-08:00)
Subject: [BoatAnchors] FA: BC-654-A and Accessories
Message-ID: <30299269.1415649543629.JavaMail.root@mswamui-chipeau.atl.sa.earthlink.net>

For those who may be interested, I have listed an excellent BC-654-A with accessories including the key, antenna sections, dynamotor, generator with seat, legs and manual on eBay under item number 331373856735

Thanks,

RD

==========
Richard Dillman, T2-GB-061170
Chief Operator, Coast Station KSM
Maritime Radio Historical Society
http://www.radiomarine.org
==========

From arc5 at ix.netcom.com Mon Nov 10 20:01:00 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Mon, 10 Nov 2014 19:01:00 -0600
Subject: [BoatAnchors] Waveforms for Oscillator "Booster" in WECO 227B
Message-ID: <FB67152630CF4713AD4CE3D65F53AFD2@DaddyPC>

I was asked about waveforms of the simple
"oscillator booster" I'm using in the WECO 227B.

Sorry the MOSFET Gate waveform photo is bad.
I needed one hand to hold the scope probe, one to
hold the camera and one to key the PTT...

Here's the circuit again as a reminder:
http://home.netcom.com/~arc5/oscbrd.jpg
http://home.netcom.com/~arc5/oscbrdtop.jpg

Before we start talking about improving my
primative thingie, remember the goal: a cheap,
simple and effective replacement when one doesn't

have a crystal. "Efficient" is not a priority.
If it works without blowing itself up (or something else),
I count it "good." The thing can be improved many ways,
but if we start adding too much we defeat the whole idea.

I don't think my scope is properly calibrated on the
10 V per division scale. It says the input waveform is
10 V PTP but my supply rail is 5.5 V?

The GATE waveform is nasty. I'm guessing
at what the points I noted mean. And you can see
a little high-freq parasitic just like Arden said there
would be, but it's pretty low level and happening
while the MOSFET is not conducting.
http://home.netcom.com/~arc5/GATE.JPG

Here's the waveform that appears at the 6L6 grid.
The grid resistor is 100K.
My scale ends at 60 VPTP and my 10:1 probe is
busted so I'm estimating this waveform at 80V PTP:
http://home.netcom.com/~arc5/PAGRID.JPG
There's a series cap-inductor in the grid circuit
which goes over toward the Modulator.
Don't know why; I still don't have a diagram.
Maybe it's ringing? But the inductor looks
more like an RFC. The cap is 50 pFd.
Aside: The little HC-25s work well in a lot
of things, but won't oscillate in this circuit.
They work OK in the receiver oscillator.

Here's the output at the antenna connection:
http://home.netcom.com/~arc5/PAOUT.JPG
Power out was 8 watts into 50 ohms resistive.

73 DE Dave AB5S

From pmiddleton at niu.edu Mon Nov 10 21:30:12 2014
From: pmiddleton at niu.edu (Peter Middleton)
Date: Mon, 10 Nov 2014 20:30:12 -0600
Subject: [BoatAnchors] Equipment available for pickup
Message-ID: <546120540200000010003915F@smtp2.gw.niu.edu>

 Greetings,
 I have the following gear available to pass along to anyone who would
like to come pick it up in St. Charles, Illinois, 60174. I?m moving and
need to get it out of my garage, so anyone who?s interested will need to
take everything!

1. Two AN/GRC-9 radio sets with all their tubes and covers, but no antennas or other accessories. I think I have a T-17 mic for it. There?s an original manual for the radio. Both worked fine when last used. Receivers need new C batteries for audio tube bias for lowest distortion, but they work fine as is.
2. Homebrew power supply that powers a single GRC-9 including a cable I made to connect the terminal strip on the supply to the original power connector that fits the GRC-9. Worked fine when last used.
3. French-made (probably for NATO) TRT AM 66A 90 watt power amplifier for use with the GRC-9, including all tubes. Uses three 2E24 instant heating 807s in final. Worked fine last time I used it.
4. DY-88 dynamotor power supply for the TRT AM 66A power amplifier. It has the input and output power cables with connectors (leads only on the DC input cable). Worked fine when last used. Uses a serious amount of current at 12 VDC!
5. GRC-109 T-784 transmitter and PP-2685 power supply. With tubes but no accessories. Never tested it.
6. Navy MAB radio in its enclosure, but with no tubes or accessories. With original manual.
7. Rack mount panel (gray) and shelf for Collins 51S-1, etc.
8. TBY-8 manpack radio. Headphones, mic, and antenna, and manual for a TBY-2.
9. Heathkit IG-102 RF signal generator (worked last time I turned it on).
10. Heathkit A-9C mono audio amplifier with all parts and tubes, but untested.
11. Modern Radio Labs one tube radio (3Q5) with ?informal? instructions. Came assembled but I?ve never tested it. No tube.
12. Modern Radio Labs crystal set kit. Unassembled with ?informal? instructions.

If you have any interest in this equipment, please email me at pmiddleton1 at niu.edu and we?ll arrange a pickup time, preferably by Saturday, November 15th.

Thanks,

Peter
K6UNO

From wwatson5 at sbcglobal.net Mon Nov 10 22:22:52 2014
From: wwatson5 at sbcglobal.net (William Watson)
Date: Mon, 10 Nov 2014 19:22:52 -0800
Subject: [BoatAnchors] Spectral Display Unit for a WJ-8718A
Message-ID: <1415676172.24816.YahooMailNeo@web181205.mail.ne1.yahoo.com>

I am interested in finding a suitable WJ SDU for my WJ-8718A.

Does anyone know of one that is for sale?

Thanks.

Joe Watson
]W5WBR

From kd5byb at kd5byb.net Tue Nov 11 15:31:01 2014
From: kd5byb at kd5byb.net (Ben Hall)
Date: Tue, 11 Nov 2014 14:31:01 -0600
Subject: [BoatAnchors] BC-AN-229 Follies, part 1
In-Reply-To: <CAGRTi8WAA4waza4k10eGRpJr4j94=BWE9nwYDrpwDkwxPWFXkg@mail.gmail.com>
References: <8D1CB48FCBE201E-834-439E@webmail-va174.sysops.aol.com>
 <CAGRTi8WAA4waza4k10eGRpJr4j94=BWE9nwYDrpwDkwxPWFXkg@mail.gmail.com>
Message-ID: <54627205.9020302@kd5byb.net>

Good afternoon all,

Happy Veterans Day! To those who served...I thank you greatly.

With the day off, I decided to take a closer look at the BC-AN-229 receiver.

The unit has been modified for ham use in an ugly fashion:

1) The usual extra holes in the case. I can't tell what these were
for. Too small and too few for cooling.

2) The dial has radio station call signs scribed on them. KING, KDMO,
KJR, KIRO, and KVI.

3) Front SO connector removed. Some wires just left dangling. (!)

4) The Antenna/Loop switch has been removed and the antenna wiring
messed up. Best I can tell, former owner removed the loop wiring,
grounded one end of the input loop transformer and connected the other
to the output of the ANT Trim capacitor.

5) The front panel 1/4" jack has been removed. Wiring for it removed too.

6) Filaments wired for 6.3 volts. Not a real nice job either.

7) The "unfiltered B+" and "filtered B+" have been connected together
and the later wiring removed.

So I started to check the unit out and started making repairs:

A) A fellow listmember sent me a front panel connector from a parts
unit. Thank you much! The unpainted aluminum ring has been painted in

black wrinkle to match the rest of the set.

B) The Antenna wiring has been put back to stock. Because I don't have an A/L switch, those wires are hanging for now. I have a plan to adapt a wafer switch to work here. Awaiting some aluminum tubing to do this.

C) I started checking the metal-can capacitors. Not a single one measured good, all leaky. One of the two-section 0.1uF units has an unused section, so I tried to reform it. Still leaky.

Replacing the metal can capacitors presents a conundrum.

The five units that are on the inside of the chassis can be replaced by adding terminal strips and modern caps.

The five "top mount" caps present a challenge. For those not familiar, there are five "top mount" metal can capacitors where the can is above the chassis and the terminals stick thru to reach the inside of the chassis. Replacing these with terminal strips will be ugly and add lead length.

So...my initial plan is to rebuild these "top mount" can caps.

As as test, I removed one of the units I can easily replace with a terminal strip as a test unit. It still tested leaky - around 20k ohms.

Cut it open with the Dremel with the abrasive wheel, removed the guts, and installed a 0.5 uF modern cap. Easy.

I hope the top-mount units are as easy.

In the past, when I've tried to do the same thing with a soldered lid metal cap, I had to fight to get the lid unsoldered, then the "guts" were potted in an icky tar-like substance. Yeech. I gave up.

:)

thanks much and 73,
ben, kd5byb

From kd5byb at gmail.com Tue Nov 11 15:00:26 2014
From: kd5byb at gmail.com (Ben Hall)
Date: Tue, 11 Nov 2014 14:00:26 -0600
Subject: [BoatAnchors] BC-AN-229 Follies, part 1
In-Reply-To: <CAGRTi8WAA4waza4k10eGRpJr4j94=BWE9nwYDrpwDkwxPWFXkg@mail.gmail.com>

References: <8D1CB48FCBE201E-834-439E@webmail-va174.sysops.aol.com>
 <CAGRTi8WAA4waza4k10eGRpJr4j94=BWE9nwYDrpwDkwxPWFXkg@mail.gmail.com>
Message-ID: <54626ADA.6060906@gmail.com>

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:)

thanks much and 73,
ben, kd5byb

From jerry7proc at yahoo.com Fri Nov 14 12:19:57 2014
From: jerry7proc at yahoo.com (Jerry Proc)
Date: Fri, 14 Nov 2014 17:19:57 +0000 (UTC)
Subject: [BoatAnchors] Old Radio Books On-Line
Message-ID:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>

Old Radio books that are downloadable:.

?http://www.survivorlibrary.com/?page_id=1375

?--
Regards,
Jerry Proc
E-mail: jerry7proc at yahoo.com

From dave at horsfall.org Fri Nov 14 13:11:08 2014
From: dave at horsfall.org (Dave Horsfall)
Date: Sat, 15 Nov 2014 05:11:08 +1100 (EST)
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
Message-ID: <alpine.BSF.2.11.1411150509530.773@aneurin.horsfall.org>

On Fri, 14 Nov 2014, Jerry Proc via BoatAnchors wrote:

> Old Radio books that are downloadable:.
>
> ?http://www.survivorlibrary.com/?page_id=1375

I'd kill for a copy of the RCA Tube Manual.

--
Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
http://www.horsfall.org/spam.html (and check the home page whilst you're there)

From jp at cs.unc.edu Fri Nov 14 13:14:19 2014
From: jp at cs.unc.edu (John Poulton)
Date: Fri, 14 Nov 2014 13:14:19 -0500
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To: <alpine.BSF.2.11.1411150509530.773@aneurin.horsfall.org>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
 <alpine.BSF.2.11.1411150509530.773@aneurin.horsfall.org>
Message-ID: <CAKtz7ffa8ovm87bOZUHuknQ_7jKe0qpSOdG3NpzQduZ4oo2Vjg@mail.gmail.com>

No need for murder. There's a ton of them for sale on that auction place,
and they can be had in quanitities at hamfests for << $10. The
older/earlier ones are a bit pricey, but the later ones often can be had
for < $5.

73, John K4OZY

On Fri, Nov 14, 2014 at 1:11 PM, Dave Horsfall via BoatAnchors <
boatanchors at theporch.com> wrote:

> On Fri, 14 Nov 2014, Jerry Proc via BoatAnchors wrote:
>
> > Old Radio books that are downloadable:.
> >
> > http://www.survivorlibrary.com/?page_id=1375
>

> I'd kill for a copy of the RCA Tube Manual.
>
>

From nielwiegand at aggienetwork.com Fri Nov 14 13:28:54 2014
From: nielwiegand at aggienetwork.com (Niel Wiegand)
Date: Fri, 14 Nov 2014 12:28:54 -0600
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
Message-ID: <546649E6.8090708@aggienetwork.com>

Last winter I spent time looking for on-line old radio publications.
Here are links to some that I found:
http://w0vlz.blogspot.com/search/label/Favorite%20Links

73,
Niel - W0VLZ

Jerry Proc via BoatAnchors wrote:
> Old Radio books that are downloadable:.
>
>   http://www.survivorlibrary.com/?page_id=1375
>
>   --
> Regards,
> Jerry Proc
> E-mail: jerry7proc at yahoo.com
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
>

From donreaves at gmail.com Fri Nov 14 14:10:14 2014
From: donreaves at gmail.com (Don Reaves)
Date: Fri, 14 Nov 2014 13:10:14 -0600
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To: <alpine.BSF.2.11.1411150509530.773@aneurin.horsfall.org>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
 <alpine.BSF.2.11.1411150509530.773@aneurin.horsfall.org>

Message-ID: <CAEjO2LZQrH9be+PX+wjBoxYiuETb1nkePEXrZULXE7pjTUfHQg@mail.gmail.com>

Lots of RCA tube manuals in PDF format at Pete Millet's pages.

http://www.tubebooks.org/tube_data.htm

A tiny sample:

RCA:

RCA HB-3 Tube Handbook page <http://www.tubebooks.org/hb-3_tube_manual.htm>

1932 RCA R-10 Tube Manual <http://www.tubebooks.org/tubedata/R10.pdf>
(8.8MB PDS file) Courtesy of anonymous donor

1934 RCA RC-12 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC12.pdf> (3.6MB PDF file), with PDF
index

1948 RCA RC-15 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC15.pdf> (13MB PDF file) Courtesy of
anonymous donor

1951 RCA RC-16 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC16.pdf> (15MB PDF file) Courtesy of
anonymous donor

1954 RCA RC-17 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC17.pdf> (15MB PDF file) Courtesy of
anonymous donor

1956 RCA RC-18 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC18.pdf> (CAUTION LARGE 22MB PDF
file) Courtesy
of Walter Welch, AI4SP

 1959 RCA RC-19 Tube Manual <http://www.tubebooks.org/tubedata/RC19.pdf>
(CAUTION LARGE 23MB PDF file) Courtesy of an anonymous donor

1960 RCA RC-20 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC20.pdf> (CAUTION LARGE 20MB PDF
file) Courtesy
of Walter Welch, AI4SP

1960 RCA RC-20 Valvulas de Recepcion
<http://www.tubebooks.org/tubedata/

RCA_1960_RC-20_Valvulas_de_Recepcion_Manual.pdf>
(CAUTION LARGE 43MB PDF file) - The classic RCA RC-20 manual, en Espanol!

1961 RCA RC-21 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC-21.pdf> (12MB PDF file), with PDF
index

1964 RCA RC-23 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC23.pdf> (CAUTION LARGE 25MB PDF
file) Courtesy
of Walter Welch, AI4SP

1965 RCA RC-24 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC24.pdf> (CAUTION LARGE 24.2MB PDF
file) Courtesy of an anonymous donor

1966 RCA RC-25 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC25.pdf> (35.6MB PDF file) Courtesy of
anonymous donor

1968 RCA RC-26 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/rc26.pdf> (CAUTION LARGE 28MB PDF
file) Courtesy
of Walter Welch, AI4SP

1975 RCA RC-30 Receiving Tube Manual
<http://www.tubebooks.org/tubedata/RC30.pdf> (CAUTION LARGE 38MB PDF
file) Courtesy
of Walter Welch, AI4SP

--
Don Reaves W5OR WD2XSH/15

From mike at oldaudio.net Fri Nov 14 15:37:33 2014
From: mike at oldaudio.net (Mike Durff)
Date: Fri, 14 Nov 2014 12:37:33 -0800
Subject: [BoatAnchors] Old Radio Books On-Line
Message-ID: <1415997453.23032.YahooMailNeo@web125005.mail.ne1.yahoo.com>

Here's another good source. Books about Technology and Engineering - Electronics

Books about Technology and Engineering - Electronics
Read books from the category Books about Technology and Engineering - Electronics
View on www.forgottenbooks... Preview by Yahoo

If you need to go back that far.... and I do ! I download these and send them to

LULU.com for printing & binding... less than $10 for a one off. Much cheaper than a printer cartridge.
73, MD

From gumbear at pacbell.net Fri Nov 14 19:26:06 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Fri, 14 Nov 2014 16:26:06 -0800
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
Message-ID: <B52AB6ADCA504E2EBBA50C506C210506@KB6NAX>

> Old Radio books that are downloadable:.
> http://www.survivorlibrary.com/?page_id=1375

Too bad my library is more likely to become recycled cellulose and made into cardboard boxes to ship Chinese trinkets around the world in. What to scan and where to send it? We need a BAMA for radio books.

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant

From kb8tad at gmail.com Fri Nov 14 19:54:51 2014
From: kb8tad at gmail.com (Rich Post)
Date: Fri, 14 Nov 2014 19:54:51 -0500
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To: <B52AB6ADCA504E2EBBA50C506C210506@KB6NAX>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
 <B52AB6ADCA504E2EBBA50C506C210506@KB6NAX>
Message-ID: <CAEJr0FtSv4zRnvddtH9=+G=XpvupzuhuKx8ZtiKh3UrEFbfxgw@mail.gmail.com>

Arden,
Here's a good start!

<http://www.tubebooks.org/technical_books_online.htm>

On Fri, Nov 14, 2014 at 7:26 PM, Arden Allen via BoatAnchors <

boatanchors at theporch.com> wrote:

> Old Radio books that are downloadable:.
>> http://www.survivorlibrary.com/?page_id=1375
>>
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> Too bad my library is more likely to become recycled cellulose and made
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> Arden Allen
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>
> He who is cruel to animals becomes
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> We can judge the heart of a man by
> his treatment of animals.
> ?Immanuel Kant
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>

From universal_comm at reagan.com Sat Nov 15 01:00:28 2014
From: universal_comm at reagan.com (Raymond Cote)
Date: Sat, 15 Nov 2014 00:00:28 -0600
Subject: [BoatAnchors] Old Radio Books On-Line
In-Reply-To: <B52AB6ADCA504E2EBBA50C506C210506@KB6NAX>
References:
<413076586.509662.1415985597718.JavaMail.yahoo@jws10087.mail.ne1.yahoo.com>
 <B52AB6ADCA504E2EBBA50C506C210506@KB6NAX>
Message-ID: <AD094EFF-0D4B-47BE-8272-7C12AF7681E6@reagan.com>

What a great resource that is.
Is that YOUR site Arden?
It is commendable.

Raymond Cote
KD9CCZ

> On Nov 14, 2014, at 18:26, Arden Allen via BoatAnchors <boatanchors at
theporch.com> wrote:
>

> Old Radio books that are downloadable:.
> http://www.survivorlibrary.com/?page_id=1375

Too bad my library is more likely to become recycled cellulose and made into cardboard boxes to ship Chinese trinkets around the world in. What to scan and where to send it? We need a BAMA for radio books.

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant

From arc5 at ix.netcom.com Sat Nov 15 10:41:48 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 15 Nov 2014 09:41:48 -0600
Subject: [BoatAnchors] Programmable Osc Setback
Message-ID: <7ACA268E2B5A4CD4A79A135B1B578898@DaddyPC>

OK, you fellas can "I told ya so."   I won't complain.
On the receiver side, the tiny output of the programmable
oscillators work fine and I hear no problem with
increased noise floor.

Not so on the transmit side, were the osc needs
considerable "boost" to drive the 6L6 grid.
My attempt to keep the TX Xtal-replacement circuit
ultra-simple just isn't up to the job.
The output is noisy and has unacceptable spurs.
Not about to give up on it- I have high hopes it
can be made to work in the BC-375.

A reminder of the over-simple circuit as it is now:
http://home.netcom.com/~arc5/oscbrd.jpg
And the goal: use several of these oscillators
on a satellite board to replace very expensive crystals
(aside: Bry's crystals work well in many circuits
including the RX side of this rig, but do not oscillate
in this transmitter circuit).

There's a couple of ways we might go from here.
The input impedance of the MOSFET gate is quite high,
so a Hi-Q tuned circuit between the OSC and Gate
might bring the nastys down to something workable.
Might also turn the FET into a oscillator itself, so a
tuned buffer as has been suggested might be in order.
Can you neutralize a MOSFET?
Operating the MOSFET linear might also help.

Ideas?

73 Dave AB5S

From arc5 at ix.netcom.com Sat Nov 15 13:23:42 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 15 Nov 2014 12:23:42 -0600
Subject: [BoatAnchors] Osc Setback: NEVERMIND
Message-ID: <EAB97870DD464316B8AC25478B926B8B@DaddyPC>

Well this is what I get for writing stuff before my customary
third pot of morning coffee.
That's OK; being wrong is one thing I do really well.

I didn't have my test equipment set-up correctly.
The noise and spurs out of the simple Osc booster
are not nearly as bad as all that.
I used the output of a no-AVC receiver
(RF gain way down) into a fixed audio load and set
each measurement freq for a 1KC tone.
The fundamental I set at 1.5 V PTP as a reference
for relative-type measurements.
The worst spur is at 3830 KC, reading 60 millivolts PTP.
The next is at 3970, reading about 35 millivolts PTP.
Any other spurs were beneath my noise floor.

I tuned to 3880 KC to look at the rise in noise floor
from the noise output of the oscillator.
Set the noise floor at 50 millivolts.
Keying the oscillator raised it to 100 millivolts.
Moving further away in frequency reduced it in
a linear fashion.

I think maybe we can work with this.

73 DE Dave AB5S

From CBRENNER at uwec.edu Sun Nov 16 17:24:25 2014
From: CBRENNER at uwec.edu (Brenner, Charles J.)
Date: Sun, 16 Nov 2014 22:24:25 +0000
Subject: [BoatAnchors] Speaking of Books
Message-ID: <3B2C101E19CBC240B031AA79D40D2BED69132B2C@EX2010-MBX1.uwec.edu>

I have followed with interest the discussion on the availability of scanned old boatanchor books. What a wonderful resource. On the chance there is somebody out there who would like a hard copy of an old classic radio book I offer the following: Reference Data for Radio Engineers 3rd ed.; Federal Telephone and Radio Company; copyright 1949; eighth printing, September 1954 . Asking $11.00 which includes USPS shipping via media mail.

73, Chuck Brenner WB9GJW

From landn2 at frontier.com Tue Nov 18 21:10:08 2014
From: landn2 at frontier.com (Liles and Naomi Garcia)
Date: Tue, 18 Nov 2014 18:10:08 -0800
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
Message-ID: <OBEDKFDGHEPDGADPPEHFMENJEPAA.landn2@frontier.com>

Good evening Everybody,

I have a Pierson-DeLane PR-15 Special and I wondered if any of you all know what it was made for and/or used for? The word " Special " is written in factory writing just below the " Pierson-DeLane " name and the " PR-15 " name on the front of the radio. My radio has these bands: Band 1 550 KHz to 1750 KHz

Band 2 1750 KHz to 5.5 MHz
Band 3 5.4 MHz to 12 MHz
Band 4 11 MHZ to 22 MHz
Band 5 180 KHz to 410 KHz

The published coverage for Band 5 is 18 MHz to 40 KHz, which I don't have.

I got this radio several years ago, and I am going to try to get it working. The radio was very clean when I got it; so cleaning it up will be easy. I have a low-impedance somewhere in the B+ circuitry. All my radio does right now is heat the field coil on the speaker. It doesn't make any sounds. I will be working on it for the next few days and will let you all know how I progress.

Are these radios very rare, rare, a little common, or common? Many thanks in advance for any information about my radio!!

Everybody have a great rest of the week!!

Best regards from Aloha, Oregon,
Liles Garcia
landn2 at frontier.com

From rbsingl at ilstu.edu Tue Nov 18 21:42:25 2014
From: rbsingl at ilstu.edu (Singley, Rodger)
Date: Wed, 19 Nov 2014 02:42:25 +0000
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
In-Reply-To: <OBEDKFDGHEPDGADPPEHFMENJEPAA.landn2@frontier.com>
References: <OBEDKFDGHEPDGADPPEHFMENJEPAA.landn2@frontier.com>
Message-ID: <0DEBF1C8D8437248BE53CD4213B89BD322FC6CCC@ISUEMBX02.ad.ilstu.edu>

Liles,

I would assume "special" refers to the VLF coverage of your receiver substituted for the normal range at the top of the shortwave range. As such it is probably less common than the normal versions of the Pierson-DeLane/Patterson PR-15 receivers. The PR-15 isn't rare but it certainly isn't nearly as common as the radios from the Midwest and East coast giants of the time.

There were some very interesting receivers that came from the West coast during the 30s. I have several Patterson models (PR-10, PR-15, PR-16) along with Karl Pierson's KP-81 which shows a strong family resemblance to the receivers he designed/worked on while with Patterson. Breting also made some really nice looking and performing gear and I was fortunate to acquire several Breting models along with several Sargent regens from a California collector. Your PR-15 is well worth restoring.

Rodger WQ9E

From n7rk at cox.net Tue Nov 18 23:34:56 2014
From: n7rk at cox.net (Dave Hollander)
Date: Tue, 18 Nov 2014 21:34:56 -0700
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
In-Reply-To: <HEA41p00w03BXh301EAFib>
References: <HEA41p00w03BXh301EAFib>
Message-ID: <546C1DF0.4030508@cox.net>

Hi Liles - I have a Pierson Delane PR-15 but have never done anything with it. I don't know if mine has the LF band or not. It probably doesn't. It's not accessible at the moment, It's pretty much the same radio as a Patterson PR-15.

Here is a web page I put together on Patterson Radios several years
ago. The PR-15 is at the bottom of the page.

http://n7rk.com/patterson2.htm

73,

Dave N7RK

From n7rk at cox.net Tue Nov 18 23:34:56 2014
From: n7rk at cox.net (Dave Hollander)
Date: Tue, 18 Nov 2014 21:34:56 -0700
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
In-Reply-To: <HEA41p00w03BXh301EAFib>
References: <HEA41p00w03BXh301EAFib>
Message-ID: <546C1DF0.4030508@cox.net>

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ago. The PR-15 is at the bottom of the page.

http://n7rk.com/patterson2.htm

73,

Dave N7RK

From wb0eq at yahoo.com Tue Nov 18 23:58:48 2014
From: wb0eq at yahoo.com (John Sehring)
Date: Wed, 19 Nov 2014 04:58:48 +0000 (UTC)
Subject: [BoatAnchors] BA parts source
Message-ID:
<1687746044.2395180.1416373128862.JavaMail.yahoo@jws10658.mail.bf1.yahoo.com>

I don't know if anyone has mentioned this BA-oriented source of electronic parts:
High Voltage Electrolytic and Film Capacitors for Tube Radios
They have other parts as well:
Capacitors, Resistors and Schematics for Tube Radios / Electronics ??Enjoy!
--John Sehring ?VE6EQR-WB0EQ??nr Calgary, Alberta, Canada

From johnmb at nc.rr.com Wed Nov 19 06:55:52 2014

From: johnmb at nc.rr.com (john)
Date: Wed, 19 Nov 2014 06:55:52 -0500
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
In-Reply-To: <546C1DF0.4030508@cox.net>
References: <HEA41p00w03BXh301EAFib>
 <546C1DF0.4030508@cox.net>
Message-ID: <6.2.1.2.2.20141119065344.0338b160@pop-server.nc.rr.com>

I've got a PR15 as well. I'm the 2nd owner having bought it from the estate
of the original owner.

It comes with a packet of info , and correspondence to and from Mr Pierson
with some comments about the problem the original owner was having with the
radio, and the original sales receipt. I love it when old things come
with some history lke this.

The darn thing LOOKS like an old radio

John K5MO

At 11:34 PM 11/18/2014, Dave Hollander via BoatAnchors wrote:
>Hi Liles - I have a Pierson Delane PR-15 but have never done anything with
>it. I don't know if mine has the LF band or not. It probably doesn't.
>It's not accessible at the moment, It's pretty much the same radio as a
>Patterson PR-15.
>
>Here is a web page I put together on Patterson Radios several years ago.
>The PR-15 is at the bottom of the page.
>
>http://n7rk.com/patterson2.htm
>
>73,
>
>Dave N7RK
>_____
>BoatAnchors mailing list
>BoatAnchors at theporch.com
>https://minime.theporch.com/mailman/listinfo/boatanchors

III

From johnmb at nc.rr.com Wed Nov 19 06:55:52 2014
From: johnmb at nc.rr.com (john)
Date: Wed, 19 Nov 2014 06:55:52 -0500
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
In-Reply-To: <546C1DF0.4030508@cox.net>
References: <HEA41p00w03BXh301EAFib>
 <546C1DF0.4030508@cox.net>
Message-ID: <6.2.1.2.2.20141119065344.0338b160@pop-server.nc.rr.com>

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of the original owner.

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with some comments about the problem the original owner was having with the
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At 11:34 PM 11/18/2014, Dave Hollander via BoatAnchors wrote:
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>It's not accessible at the moment, It's pretty much the same radio as a
>Patterson PR-15.
>
>Here is a web page I put together on Patterson Radios several years ago.
>The PR-15 is at the bottom of the page.
>
>http://n7rk.com/patterson2.htm
>
>73,
>
>Dave N7RK
>_____
>BoatAnchors mailing list
>BoatAnchors at theporch.com
>https://minime.theporch.com/mailman/listinfo/boatanchors

III

From 1oldlens1 at ix.netcom.com Wed Nov 19 11:37:08 2014
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Wed, 19 Nov 2014 08:37:08 -0800
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special
References: <OBEDKFDGHEPDGADPPEHFMENJEPAA.landn2@frontier.com>
Message-ID: <1FEB242FAC9A46E5ACA6D12436DECAD0@VALUED20606295>

----- Original Message -----
From: "Liles and Naomi Garcia via BoatAnchors"
<boatanchors at theporch.com>
To: <boatanchors at minime.theporch.com>
Sent: Tuesday, November 18, 2014 6:10 PM
Subject: [BoatAnchors] Pierson-DeLane PR-15 Special

> Good evening Everybody,
>
> I have a Pierson-DeLane PR-15 Special and I wondered if
> any of you all know
> what it was made for and/or used for? The word " Special
> " is written in
> factory writing just below the " Pierson-DeLane " name and
> the " PR-15 "
> name on the front of the radio. My radio has these bands:
> Band 1 550 KHz to
> 1750 KHz
>   Band 2 1750 KHz to 5.5 MHz
>   Band 3 5.4 MHz to 12 MHz
>   Band 4 11 MHZ to 22 MHz
>   Band 5 180 KHz to 410 KHz
>
> The published coverage for Band 5 is 18 MHz to 40 KHz,
> which I don't have.
>
> I got this radio several years ago, and I am going to try
> to get it working.
> The radio was very clean when I got it; so cleaning it up
> will be easy. I
> have a low-impedance somewhere in the B+ circuitry. All
> my radio does right

> now is heat the field coil on the speaker. It doesn't
> make any sounds. I
> will be working on it for the next few days and will let
> you all know how I
> progress.
>
> Are these radios very rare, rare, a little common, or
> common? Many thanks
> in advance for any information about my radio!!
>
> Everybody have a great rest of the week!!
>
> Best regards from Aloha, Oregon,
> Liles Garcia
> landn2 at frontier.com
>
    Its almost certainly the frequency bands. 180 to 410 was
often used for marine and aircraft beacon purposes although
for the old control tower frequencies it should go down to
about 150 Khz. Many general coverage receivers were made
with either one or two bands modified for medium-low
frequecnies.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk at ix.netcom.com

From spr at earthlink.net Wed Nov 19 18:50:21 2014
From: spr at earthlink.net (Scott Robinson)
Date: Wed, 19 Nov 2014 15:50:21 -0800
Subject: [BoatAnchors] BA parts source
In-Reply-To:
<1687746044.2395180.1416373128862.JavaMail.yahoo@jws10658.mail.bf1.yahoo.com>
References:
<1687746044.2395180.1416373128862.JavaMail.yahoo@jws10658.mail.bf1.yahoo.com>
Message-ID: <546D2CBD.5040602@earthlink.net>

Er, John: what source? We have here a case of the Missing Link...

Thanks,

/scott

On 11/18/14, 8:58 PM, John Sehring via BoatAnchors wrote:
> I don't know if anyone has mentioned this BA-oriented source of electronic
parts:
> High Voltage Electrolytic and Film Capacitors for Tube Radios
> They have other parts as well:
> Capacitors, Resistors and Schematics for Tube Radios / Electronics   Enjoy!
> --John Sehring VE6EQR-WB0EQ nr Calgary, Alberta, Canada

From arc5 at ix.netcom.com Wed Nov 19 10:23:30 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Wed, 19 Nov 2014 09:23:30 -0600
Subject: [BoatAnchors] The Search for a Retubed, Stable BC-375 Oscillator
Message-ID: <31D718D359F34F95A9A8AE95C981B7BE@DaddyPC>

Thanks to the many people smarter than me on these
excellent lists, I've learned a lot while fiddling-around
with the SCR-183 and the WECO 227B rigs.
Time to get back to re-tubing and stabilizing the BC-375.

Here is a diagram of the BC-375 oscillator in
its native condition:
http://home.netcom.com/~arc5/375osc.jpg

This is my first idea- to open the feedback to the
OSC grid and feed to Aux Osc. in there.
The original OSC tube will act as a "buffer/amp."
http://home.netcom.com/~arc5/375AuxOsc.jpg

However-it's a triode. Neutralization might be
an issue. If so, how would you accomplish it?
Ground rules: No drilling, hacking or whacking.
Every change must be 100% restorable to original.

TNX OM ES 73 DE Dave AB5S

From gumbear at pacbell.net Wed Nov 19 22:05:12 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Wed, 19 Nov 2014 19:05:12 -0800
Subject: [BoatAnchors] BA parts source
In-Reply-To: <546D2CBD.5040602@earthlink.net>
References:
<1687746044.2395180.1416373128862.JavaMail.yahoo@jws10658.mail.bf1.yahoo.com>
 <546D2CBD.5040602@earthlink.net>
Message-ID: <8C6208CF285F4008AC3E3525DD82DBA0@KB6NAX>

> Er, John: what source? We have here a case of the Missing Link...

I think it's www.justradios.com

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant

From k1lky68 at gmail.com Thu Nov 20 01:14:59 2014
From: k1lky68 at gmail.com (Roy Morgan)
Date: Thu, 20 Nov 2014 01:14:59 -0500
Subject: [BoatAnchors] FCC Address Change
In-Reply-To: <8C6208CF285F4008AC3E3525DD82DBA0@KB6NAX>
References:
<1687746044.2395180.1416373128862.JavaMail.yahoo@jws10658.mail.bf1.yahoo.com>
 <546D2CBD.5040602@earthlink.net> <8C6208CF285F4008AC3E3525DD82DBA0@KB6NAX>
Message-ID: <450998F7-C0EE-4066-85B6-BACA4B490D7C@gmail.com>

Boatanchorites,

I?d like to change the address the FCC has for me.

I don?t want to pay $8 on QRZ because I know there?s a way to do it myself.

HOW do I do that? I can?t find any way on www.fcc.gov (I do know my FRN: FCC Registration Number).

Roy

Roy Morgan
RoyMorgan at alum.mit.edu
K1LKY Since 1958

From wb0eq at yahoo.com Thu Nov 20 01:32:03 2014
From: wb0eq at yahoo.com (John Sehring)
Date: Thu, 20 Nov 2014 06:32:03 +0000 (UTC)
Subject: [BoatAnchors] Confusion!
Message-ID:

<949854698.2975632.1416465123436.JavaMail.yahoo@jws10695.mail.bf1.yahoo.com>

The actual web address is: ?http://www.justradios.com/capacitors.html ?Home page gotten to nicking off the last bit of the above address.
?(Sorry for confusion!? Some dang inet/email automatic thing, phooey!)

--John Sehring ?VE6EQR-WB0EQ??nr Calgary, Alberta, Canada

From wwatson5 at sbcglobal.net Tue Nov 25 12:17:45 2014
From: wwatson5 at sbcglobal.net (William Watson)
Date: Tue, 25 Nov 2014 09:17:45 -0800
Subject: [BoatAnchors] McKay-Dymek DA-100
Message-ID: <1416935865.21213.YahooMailNeo@web181205.mail.ne1.yahoo.com>

I recently picked up the base unit of a McKay-Dymek DA-100 active antenna, not realizing at the time that without the remote preamp it is really of little value.

If anyone needs this, or if anyone has the preamp lying around gathering dust, or if anyone has a manual with a circuit diagram of the preamp, let me know.

Thanks.

Joe Watson
W5WBR

From ddillman at igc.org Wed Nov 26 15:57:43 2014
From: ddillman at igc.org (Richard Dillman)
Date: Wed, 26 Nov 2014 12:57:43 -0800 (GMT-08:00)
Subject: [BoatAnchors] FA: Military Halicrafters S-27,
     Military Speed Graphic camera
Message-ID: <21886908.1417035463707.JavaMail.root@elwamui-royal.atl.sa.earthlink.net>

For those who may be interested I've posted these items on eBay:

WWII Military S-27 receiver (BC-787), item number 331394963362

WWII military Speed Graphic 4x5 camera with accessories, item number 331394983723

Thanks,

RD

==========
Richard Dillman, T2-GB-061170
Chief Operator, Coast Station KSM
Maritime Radio Historical Society

http://www.radiomarine.org
==========

From 1oldlens1 at ix.netcom.com Wed Nov 26 21:13:10 2014
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Wed, 26 Nov 2014 18:13:10 -0800
Subject: [BoatAnchors] [armyradios] FA: Military Halicrafters S-27,
     Military Speed Graphic camera
References: <21886908.1417035463707.JavaMail.root@elwamui-
royal.atl.sa.earthlink.net>
Message-ID: <9113B30B7A63401A834A5860492C600C@VALUED20606295>

----- Original Message -----
From: "Richard Dillman ddillman at igc.org [armyradios]"
<armyradios at yahoogroups.com>
To: "Army Radios" <armyradios at yahoogroups.com>;
"Boatanchors" <boatanchors at theporch.com>
Sent: Wednesday, November 26, 2014 12:57 PM
Subject: [armyradios] FA: Military Halicrafters S-27,
Military Speed Graphic camera

>
> For those who may be interested I've posted these items on
> eBay:
>
> WWII Military S-27 receiver (BC-787), item number
> 331394963362
>
> WWII military Speed Graphic 4x5 camera with accessories,
> item number 331394983723
>
> Thanks,
>
> RD

     FWIW, the camera is not WW-2 but a later version
although military. It is a "Pacemaker" series made from
about 1946. The Pacemaker has a number of improvements over
the previous "Anniversary" model begun in 1940. This one
appears to have a Graflok back which allows the use of a
number of accessories. It appears to have a Kodak Ektar
lens in a flash synch Kodak shutter (Richard please confirm)
The standard on the military and press Speed Graphic was an
f/4.7 127mm Ektar. These are extremely good lenses. The
shutters are repairable and can be made to meet original

specs. The Pacemaker has a shutter tripping button on the right side (holding the camera) which can be used with either front or focal plane shutter. The Pacemaker is significantly lighter than the previous model. I would bid on it but have two others. 4x5 film is easily available from stores like Freestyle Photo. The photos show late Graflex holders which are about the best and usually meet focal plane specs.

    This camera appears to be in unusually clean condition and Speed Graphics are becoming hard to find. A completely practical camera. More information can be found at http://www.graflex.org

    I have nothing to do with Mr. Dillman but am a Speed Graphic fan and think this is a good opportunity for members of this list who may be interested in large format (used to be medium format) photography.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk at ix.netcom.com

From wb0eq at yahoo.com Fri Nov 28 16:31:04 2014
From: wb0eq at yahoo.com (John Sehring)
Date: Fri, 28 Nov 2014 21:31:04 +0000 (UTC)
Subject: [BoatAnchors] Radio active!
Message-ID:
<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>

I just acquired a nice National NC-303.
Been going thru it prior to any electronic tests.
Pulled an 0B2 votage regulator tube.
It creeped me out as it had a little yellow colored band attached to it.? On the band were printed numerous purple colored nuclear radiation symbols!
Should I be worried?
?--John Sehring ?VE6EQR-WB0EQ??nr Calgary, Alberta, Canada

From rbsingl at ilstu.edu Fri Nov 28 19:37:19 2014
From: rbsingl at ilstu.edu (Singley, Rodger)
Date: Sat, 29 Nov 2014 00:37:19 +0000
Subject: [BoatAnchors] Radio active!
In-Reply-To:
<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>
References:

<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>
Message-ID: <0DEBF1C8D8437248BE53CD4213B89BD322FC8316@ISUEMBX02.ad.ilstu.edu>

John,

Not unless you drop it an then inhale the contents like it is Columbian Cocaine : (It is doped with a very small amount of a radioactive isotope to ensure quick/reliable starting in dark/cold ambient conditions. I believe prior to this some military gear used light bulbs to ensure VR tube activation.

Nothing to worry about, if you drop it and break it clean up the residue using a dampened paper towel, bag it all, and throw it.

Rodger

Dr. Rodger B. Singley
Professor of Marketing

-----Original Message-----
From: BoatAnchors [mailto:boatanchors-bounces at theporch.com] On Behalf Of John Sehring via BoatAnchors
Sent: Friday, November 28, 2014 3:31 PM
To: Boatanchors List
Subject: [BoatAnchors] Radio active!

From franklin6209 at att.net Fri Nov 28 13:56:02 2014
From: franklin6209 at att.net (Gary Franklin)
Date: Fri, 28 Nov 2014 13:56:02 -0500
Subject: [BoatAnchors] RF probe for Eico 147A
Message-ID: <5478C542.2070103@att.net>

I need an rf probe for my Eico 147A . If anyone has a one please let me know..... I could home brew one but I need a schematic.

Thanks
Gary, K8BKB

From ark at ar88.net Fri Nov 28 20:06:56 2014
From: ark at ar88.net (Al Klase)
Date: Fri, 28 Nov 2014 20:06:56 -0500
Subject: [BoatAnchors] RF probe for Eico 147A
In-Reply-To: <5478C542.2070103@att.net>
References: <5478C542.2070103@att.net>
Message-ID: <54791C30.4080208@ar88.net>

Gary,

The RF probe is a nothing-to-it. Just a diode (germanium?) and a
resistor. See page 12C of the manual here:
http://bama.edebris.com/manuals/eico/147a/

Al

Al Klase ? N3FRQ
Jersey City, NJ
http://www.skywaves.ar88.net/

On 11/28/2014 1:56 PM, Gary Franklin via BoatAnchors wrote:
> I need an rf probe for my Eico 147A . If anyone has a one please let
> me know..... I could home brew one but I need a schematic.
>
> Thanks
> Gary, K8BKB
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From spr at earthlink.net Fri Nov 28 21:33:26 2014
From: spr at earthlink.net (Scott Robinson)
Date: Fri, 28 Nov 2014 18:33:26 -0800
Subject: [BoatAnchors] Radio active!
In-Reply-To:
<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>
References:
<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>
Message-ID: <54793076.1050002@earthlink.net>

Hi John,

All gas regulators have a teensy bit of some radioactive gas in them to
help them start predictably. If you don't break the glass, you have no
exposure AFAIK. If you do, the amount is microscopic.

I don't worry about that in my house, but then, hey, I'm a radio
collector and therefore of doubtful sanity in the first place.

Peace,

Scott

On 11/28/14, 1:31 PM, John Sehring via BoatAnchors wrote:
> I just acquired a nice National NC-303.
> Been going thru it prior to any electronic tests.
> Pulled an 0B2 votage regulator tube.
> It creeped me out as it had a little yellow colored band attached to it. On the band were printed numerous purple colored nuclear radiation symbols!
> Should I be worried?
>   --John Sehring VE6EQR-WB0EQ nr Calgary, Alberta, Canada
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>

From arc5 at ix.netcom.com Fri Nov 28 22:39:01 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 28 Nov 2014 21:39:01 -0600
Subject: [BoatAnchors] Western Electric 227B Receiver Oscillator
Message-ID: <793ED58D60AB45C1BB43BC331D78F9B0@DaddyPC>

Programmable Oscillator for Western Electric 227B
"Xtal-Controlled" Receiver Channels.

Got around to building the little board to provide 4.265 MC
into the WECO 227B mixer for 3880 KC receive on Ch. 2.
The programmable oscillator doesn't need any extra help
in this stage.   This type only takes 16 mA to run.
I used a 560-Ohm resistor to a 5V Zener to drop the
supply voltage from 13.5 down to 5V.
http://home.netcom.com/~arc5/rxbrd.jpg

The output is just capacitively coupled to the plate
 in the double Xtal holder.   Wrapped the board in tape
with the lead from the coupling cap coming out and
bent over to make contact with the holder plate.
http://home.netcom.com/~arc5/rxbrdtape.jpg

Just slipped the little board into the empty side
of the crystal holder and it worked fine.
http://home.netcom.com/~arc5/rxbrdin.jpg

Now except for replacing the handset cord with an
original 4-conductor 1930s telephone cord
(on the way) and a few cosmetics, the set is all done.
Four crystal-controlled channels on
3870, 3880, 3885 and 3890 KC.   Receiver
can also be MO-tuned from 2-4 MC. TX 9 Watts out.

Worked 8 states with it so far. Best DX is Alabama-
not bad for 9 Watts of AM.
Programmable Oscillators run the 3890 TX channel.
and the 3880 RX channel. I just found some 3890
crystals on Ebay so I'll probably install that in place
of the TX Programmable but the RX will likely stay.

GL OM ES 73 DE Dave AB5S

From kb8tad at gmail.com Fri Nov 28 22:47:06 2014
From: kb8tad at gmail.com (Rich Post)
Date: Fri, 28 Nov 2014 22:47:06 -0500
Subject: [BoatAnchors] RF probe for Eico 147A
In-Reply-To: <54791C30.4080208@ar88.net>
References: <5478C542.2070103@att.net>
     <54791C30.4080208@ar88.net>
Message-ID: <CAEJr0FvXQjPG3c0eyesF+ZHzEyn1ZYrHkCdd8v6vZ25s8wrooA@mail.gmail.com>

Check here for some probe schematics including the Eico and some ideas on
homebrew probes.
<http://www.ohio.edu/people/postr/bapix/SigTrac2.htm>

Rich KB8TAD

On 11/28/2014 1:56 PM, Gary Franklin via BoatAnchors wrote:
>
>> I need an rf probe for my Eico 147A . If anyone has a one please let me
>> know..... I could home brew one but I need a schematic.
>>
>>

From vilgotch at bigpond.net.au Sat Nov 29 00:45:54 2014
From: vilgotch at bigpond.net.au (Morris Odell)
Date: Sat, 29 Nov 2014 16:45:54 +1100
Subject: [BoatAnchors] Radio active!
In-Reply-To: <54793076.1050002@earthlink.net>
References:
<802123280.2363372.1417210264850.JavaMail.yahoo@jws10629.mail.bf1.yahoo.com>
 <54793076.1050002@earthlink.net>
Message-ID: <000001d00b97$be4255d0$3ac70170$@bigpond.net.au>

Scott said:

> All gas regulators have a teensy bit of some radioactive gas in them to
help them start predictably. If you don't break the glass, you have no

exposure AFAIK. If you do, the amount is
> microscopic.

I read somewhere that the isotope concerned is Cobalt-60. If so it has a half-life of about 5 years. In the 50 or so years since that tube was made, ten half-lives would have passed which means the activity is down to less than 0.1% of what it was originally.

You won't need to make a booking with undertaker if you break one :-)

73 de Morris VK3DOC

From WA5CAB at cs.com Sat Nov 29 01:42:12 2014
From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Sat, 29 Nov 2014 01:42:12 -0500
Subject: [BoatAnchors] Radio active!
Message-ID: <b749c.9928d23.41aac4c4@cs.com>

According to the warning page in the front of the R-390A/URR Depot manual (and others), which radioisotope was used depended upon who made the 0A2WA.

EEVC	U 238	0.1uCi
CBS Hytron	Ni 63	0.5uCi
Ratheon	Co 60	0.2uCi

Note that these are all metals. Another source lists Kr 85 (gas) as used in earlier 0A2's from Ratheon. Kr 85 has about a 10 year half life. And apparently half a dozen other isotopes of which I think only Cs 137 has a significant half life (30 years) compared to the typical age today of vacuum tubes. Although I didn't spend much time on it, I got the impression that most of the older VR tubes (the octal base ones) probably used a gas.

Anyway, the short answer is don't break the glass. If you do, ventilate the room for a few minutes to be on the safe side and then clean it up without cutting yourself.

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

In a message dated 11/28/2014 23:46:50 PM Central Standard Time, boatanchors at theporch.com writes:
> >All gas regulators have a teensy bit of some radioactive gas in them to
> help them start predictably. If you don't break the glass, you have no
> exposure AFAIK. If you do, the amount is
> > microscopic.

>
> I read somewhere that the isotope concerned is Cobalt-60. If so it has a
> half-life of about 5 years. In the 50 or so years since that tube was
> made,
> ten half-lives would have passed which means the activity is down to less
> than 0.1% of what it was originally.
>
> You won't need to make a booking with undertaker if you break one :-)
>
> 73 de Morris VK3DOC
>

From dave at horsfall.org Sat Nov 29 01:48:34 2014
From: dave at horsfall.org (Dave Horsfall)
Date: Sat, 29 Nov 2014 17:48:34 +1100 (EST)
Subject: [BoatAnchors] Radio active!
In-Reply-To: <b749c.9928d23.41aac4c4@cs.com>
References: <b749c.9928d23.41aac4c4@cs.com>
Message-ID: <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>

On Sat, 29 Nov 2014, Robert Downs WA5CAB via BoatAnchors wrote:

> According to the warning page in the front of the R-390A/URR Depot
> manual (and others), which radioisotope was used depended upon who made
> the 0A2WA.
>
> EEVC   U 238   0.1uCi

U 238?

--
Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
http://www.horsfall.org/spam.html (and check the home page whilst you're there)

From vilgotch at bigpond.net.au Sat Nov 29 02:50:56 2014
From: vilgotch at bigpond.net.au (Morris Odell)
Date: Sat, 29 Nov 2014 18:50:56 +1100
Subject: [BoatAnchors] Radio active!
In-Reply-To: <b749c.9928d23.41aac4c4@cs.com>
References: <b749c.9928d23.41aac4c4@cs.com>
Message-ID: <000001d00ba9$3584ab50$a08e01f0$@bigpond.net.au>

According to the warning page in the front of the R-390A/URR Depot manual
(and others), which radioisotope was used depended upon who made the 0A2WA.

```
EEVC                U 238    0.1uCi
CBS Hytron       Ni 63      0.5uCi
Ratheon             Co 60   0.2uCi
---------------
```

Dunno about U238 - the half life is a few billion years so it's not v radioactive and not useful for keeping the tube easy to ionize. Ni63 has a half life of 96 years which would be a lot better.

From john.shriver at gmail.com Sat Nov 29 04:30:17 2014
From: john.shriver at gmail.com (John Shriver)
Date: Sat, 29 Nov 2014 04:30:17 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
Message-ID: <E45DF35B-5EBF-4E4B-AB59-E0F59AB182A6@gmail.com>

Uranium 238 is the most common form of Uranium. Very low decay rate, enormous half-life, 4.468 billion years.

>>
>> EEVC   U 238   0.1uCi
>
> U 238?
>

From dave at horsfall.org Sat Nov 29 04:36:35 2014
From: dave at horsfall.org (Dave Horsfall)
Date: Sat, 29 Nov 2014 20:36:35 +1100 (EST)
Subject: [BoatAnchors] Radio active!
In-Reply-To: <E45DF35B-5EBF-4E4B-AB59-E0F59AB182A6@gmail.com>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
 <E45DF35B-5EBF-4E4B-AB59-E0F59AB182A6@gmail.com>
Message-ID: <alpine.BSF.2.11.1411292033010.30791@aneurin.horsfall.org>

On Sat, 29 Nov 2014, John Shriver via BoatAnchors wrote:

> Uranium 238 is the most common form of Uranium. Very low decay rate,
> enormous half-life, 4.468 billion years.

Yeah, I know, but... I just didn't expect to see the stuff outside of an

enrichment plant. Then again, radium was pretty popular at one time too.

--
Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
http://www.horsfall.org/spam.html (and check the home page whilst you're there)

From johnmb at nc.rr.com Sat Nov 29 08:43:44 2014
From: johnmb at nc.rr.com (john)
Date: Sat, 29 Nov 2014 08:43:44 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <alpine.BSF.2.11.1411292033010.30791@aneurin.horsfall.org>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
 <E45DF35B-5EBF-4E4B-AB59-E0F59AB182A6@gmail.com>
 <alpine.BSF.2.11.1411292033010.30791@aneurin.horsfall.org>
Message-ID: <6.2.1.2.2.20141129084256.044e3cb0@pop-server.nc.rr.com>

The Iranians should have just bought every last gas rectifier on the planet
for their "peaceful purposes".....

John K5MO

At 04:36 AM 11/29/2014, Dave Horsfall via BoatAnchors wrote:
>On Sat, 29 Nov 2014, John Shriver via BoatAnchors wrote:
>
> > Uranium 238 is the most common form of Uranium. Very low decay rate,
> > enormous half-life, 4.468 billion years.
>
>Yeah, I know, but... I just didn't expect to see the stuff outside of an
>enrichment plant. Then again, radium was pretty popular at one time too.
>
>--
>Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
>http://www.horsfall.org/spam.html (and check the home page whilst you're
>there)
>____
>BoatAnchors mailing list
>BoatAnchors at theporch.com
>https://minime.theporch.com/mailman/listinfo/boatanchors

III

From arc5 at ix.netcom.com Fri Nov 28 18:28:56 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 28 Nov 2014 17:28:56 -0600
Subject: [BoatAnchors] How I Store Radio Documentation.
Message-ID: <42C53889DCDF4C1C82CABD2F3F4F64D2@DaddyPC>

Because someone asked me-
After having it all get dumped in the floor and mixed
in boxes some time ago, I finally got around to re-sorting
my documentation as I once had it.
Still have a couple of boxes to sort but the end is in sight.
This is how I keep mine so I can find what I need:

http://home.netcom.com/~arc5/docshelf.jpg

Everything about a set goes in it's own box(es).
Use a rectangular "documents" box; they're about
14x11x2 inches or so. Fold them closed.
Cut them diagonally across the middle third and
seperate. You now have two "doc-file" boxes.
Works for me.

73 DE Dave AB5S

From arc5 at ix.netcom.com Fri Nov 28 18:51:56 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 28 Nov 2014 17:51:56 -0600
Subject: [BoatAnchors] More on the Search for the Stable BC-375 Oscillator.
In-Reply-To: <5475CC90.1020303@aafradio.org>
References: <31D718D359F34F95A9A8AE95C981B7BE@DaddyPC>
 <54708B38.7040407@aafradio.org> <01DCF3883BEC42DA97DB8CB45D60FB1A@DaddyPC>
 <5475CC90.1020303@aafradio.org>
Message-ID: <F6B6FC52F1AD435896E476F4D5B7DB9F@DaddyPC>

Progress report:

Here's prototype driver #2.
IRF-510 driven by a 7.027 MC programmable oscillator.
http://home.netcom.com/~arc5/oscproto2.jpg

This is the waveform at the gate. 5 V PTP
(my scope trace doesn't focus really sharp).
http://home.netcom.com/~arc5/gatewaveform.jpg

This is the waveform across the 5K dummy load.
About 60 V PTP.
The 211 grid resistor to ground is 7.5K:
http://home.netcom.com/~arc5/Outwaveform.jpg
Look at the tops of the waveform.
Is this thing "jittering" in amplitude or is it just
noise on my test leads?

Given the 375 is going to run at reduced plate B+,
this may be just enough drive. We'll see.

I did try a new type programmable oscillator.
They are all fragile, but these new ones are very
easy to "pop." Blown two of them so far from minor
Vdd transients. Going to go back to the old type.

73 DE Dave AB5S

From arc5 at ix.netcom.com Fri Nov 28 18:56:21 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 28 Nov 2014 17:56:21 -0600
Subject: [BoatAnchors] P.S. More on the etc....
In-Reply-To: <F6B6FC52F1AD435896E476F4D5B7DB9F@DaddyPC>
References:
<31D718D359F34F95A9A8AE95C981B7BE@DaddyPC><54708B38.7040407@aafradio.org><01DCF388
3BEC42DA97DB8CB45D60FB1A@DaddyPC><5475CC90.1020303@aafradio.org>
 <F6B6FC52F1AD435896E476F4D5B7DB9F@DaddyPC>
Message-ID: <4636482580D4490AA7841E7F927627F0@DaddyPC>

P.S.
Here's the prototype.
Yeah I'm messy.....

http://home.netcom.com/~arc5/prototype.jpg

From dave at horsfall.org Sat Nov 29 14:57:25 2014
From: dave at horsfall.org (Dave Horsfall)

Date: Sun, 30 Nov 2014 06:57:25 +1100 (EST)
Subject: [BoatAnchors] How I Store Radio Documentation.
In-Reply-To: <42C53889DCDF4C1C82CABD2F3F4F64D2@DaddyPC>
References: <42C53889DCDF4C1C82CABD2F3F4F64D2@DaddyPC>
Message-ID: <alpine.BSF.2.11.1411300656020.7545@aneurin.horsfall.org>

On Fri, 28 Nov 2014, David Stinson via BoatAnchors wrote:

> http://home.netcom.com/~arc5/docshelf.jpg

Neat idea! I'll remember that. Err, that shelf is looking a little
bowed, isn't it, or is that lens distortion?

--
Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
http://www.horsfall.org/spam.html (and check the home page whilst you're there)

From 1oldlens1 at ix.netcom.com Sat Nov 29 17:05:25 2014
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Sat, 29 Nov 2014 14:05:25 -0800
Subject: [BoatAnchors] Radio active!
References: <b749c.9928d23.41aac4c4@cs.com>
Message-ID: <7A0033F2E8EB45D6841BA447C9451816@VALUED20606295>

    There is some additional information at:
https://www.orau.org/ptp/collection/consumer%20products/consumer.htm

    The radiation from VR tubes seems to be pretty
innocuous. Since thorium is radioactive one wonders about
tubes with thoriated tungsten filaments.
    Thorium was one of the "rare earth" materials developed
at the National Bureau of Standards and Eastman Kodak for
use in optical parts. Thorium in glass gives it some unique
characteristics favorable to lenses. Thorium glass was used
in some Kodak aerial photography lenses during WW-2. The
thorium radiates strongly enough to cause the glass to
brown. Because of the decay characteristis of thorium, and
some other radioactive materials, it can become more
strongly radioactive as it decays. There was a rumor that
lenses containing lanthanum were also highly radioactive due
to having thorium as an impurity, this is not true, where
thorium is present it was used delibrately for its effects
on the optical properties of the glass. Lanthanum is used in
many lenses and is not hazardous. The use of thorium in
optical parts has been banned for decades.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk at ix.netcom.com

----- Original Message -----
From: "Robert Downs WA5CAB via BoatAnchors"
<boatanchors at theporch.com>
To: <boatanchors at theporch.com>
Sent: Friday, November 28, 2014 10:42 PM
Subject: Re: [BoatAnchors] Radio active!

> According to the warning page in the front of the
> R-390A/URR Depot manual
> (and others), which radioisotope was used depended upon
> who made the 0A2WA.
>
> EEVC   U 238   0.1uCi
> CBS Hytron   Ni 63   0.5uCi
> Ratheon   Co 60   0.2uCi
>
> Note that these are all metals. Another source lists Kr
> 85 (gas) as used
> in earlier 0A2's from Ratheon. Kr 85 has about a 10 year
> half life. And
> apparently half a dozen other isotopes of which I think
> only Cs 137 has a
> significant half life (30 years) compared to the typical
> age today of vacuum
> tubes. Although I didn't spend much time on it, I got the
> impression that most
> of the older VR tubes (the octal base ones) probably used
> a gas.
>
> Anyway, the short answer is don't break the glass. If you
> do, ventilate
> the room for a few minutes to be on the safe side and then
> clean it up without
> cutting yourself.
>
> Robert Downs - Houston
> wa5cab dot com (Web Store)
> MVPA 9480
>
> In a message dated 11/28/2014 23:46:50 PM Central Standard
> Time,

> boatanchors at theporch.com writes:
>> >All gas regulators have a teensy bit of some radioactive
>> >gas in them to
>> help them start predictably. If you don't break the
>> glass, you have no
>> exposure AFAIK. If you do, the amount is
>> > microscopic.
>>
>> I read somewhere that the isotope concerned is Cobalt-60.
>> If so it has a
>> half-life of about 5 years. In the 50 or so years since
>> that tube was
>> made,
>> ten half-lives would have passed which means the activity
>> is down to less
>> than 0.1% of what it was originally.
>>
>> You won't need to make a booking with undertaker if you
>> break one :-)
>>
>> 73 de Morris VK3DOC
>>
> _____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From universal_comm at reagan.com Sun Nov 30 01:16:48 2014
From: universal_comm at reagan.com (Raymond Cote)
Date: Sun, 30 Nov 2014 00:16:48 -0600
Subject: [BoatAnchors] Radio active!
In-Reply-To: <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
Message-ID: <4CC00A79-A3D9-4594-B13D-E836E49C4709@reagan.com>

U238? Geeeez why that?   Half life of 4.5 billion years!

Raymond Cote
KD9CCZ

> On Nov 29, 2014, at 00:48, Dave Horsfall via BoatAnchors <boatanchors at
theporch.com> wrote:
>

>> On Sat, 29 Nov 2014, Robert Downs WA5CAB via BoatAnchors wrote:
>>
>> According to the warning page in the front of the R-390A/URR Depot
>> manual (and others), which radioisotope was used depended upon who made
>> the 0A2WA.
>>
>> EEVC   U 238   0.1uCi
>
> U 238?
>
> --
> Dave Horsfall DTM (VK2KFU) "Bliss is a MacBook with a FreeBSD server."
> http://www.horsfall.org/spam.html (and check the home page whilst you're there)
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From dxguy at earthlink.net Sun Nov 30 05:52:30 2014
From: dxguy at earthlink.net (don davis)
Date: Sun, 30 Nov 2014 02:52:30 -0800
Subject: [BoatAnchors] Radio active!
In-Reply-To: <4CC00A79-A3D9-4594-B13D-E836E49C4709@reagan.com>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
 <4CC00A79-A3D9-4594-B13D-E836E49C4709@reagan.com>
Message-ID: <!&!
AAAAAAAAAAAYAAAAAAAAAO3NLm+r0kBFo+eoEOIVyavCgAAAEAAAALTgb8IXsSxCtoxLEkaDhUUBAAAAAA
==@earthlink.net>

U238 is also known as "Depleted Uranium" and is non-fissile but toxic. All
U-238 has small fraction of fissile U-235 which is I suspect the source of
energy for the firing. Natural Uranium has ~0.7% U-235, reprocessed rods
~-0.4%. Not very "radioactive" compared to CO-60 and others. The longer
the life, the less radioactive the material.

73 de don ad6pb

-----Original Message-----
From: BoatAnchors [mailto:boatanchors-bounces at theporch.com] On Behalf Of
Raymond Cote via BoatAnchors
Sent: Saturday, November 29, 2014 10:17 PM
To: Dave Horsfall
Cc: BoatAnchors
Subject: Re: [BoatAnchors] Radio active!

U238? Geeeez why that?   Half life of 4.5 billion years!

Raymond Cote
KD9CCZ

From johnmb at nc.rr.com Sun Nov 30 07:40:11 2014
From: johnmb at nc.rr.com (john)
Date: Sun, 30 Nov 2014 07:40:11 -0500
Subject: [BoatAnchors] Home brew tube hacking
Message-ID: <6.2.1.2.2.20141130073905.033b2780@pop-server.nc.rr.com>

Here's a nifty link, perhaps I'm the last person to see this. Build your
own tubes.

http://hackaday.com/2014/11/21/artisanal-vacuum-tubes-hackaday-shows-you-how/

John K5MO

III

From john.shriver at gmail.com Sun Nov 30 12:45:01 2014
From: john.shriver at gmail.com (John Shriver)
Date: Sun, 30 Nov 2014 12:45:01 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <4CC00A79-A3D9-4594-B13D-E836E49C4709@reagan.com>
References: <b749c.9928d23.41aac4c4@cs.com>
 <alpine.BSF.2.11.1411291747210.30791@aneurin.horsfall.org>
 <4CC00A79-A3D9-4594-B13D-E836E49C4709@reagan.com>
Message-ID: <A649EF20-93EE-4D1F-9AAB-E03EFE718057@gmail.com>

Dirt cheap. It's U235 that's rare and expensive, U238 is the common isotope.

The amount needed to get (say) one radioactive decay per second is very very
small. That's all you need to make the tube a reliable starter in the dark.

On Nov 30, 2014, at 1:16 AM, Raymond Cote via BoatAnchors <boatanchors at
theporch.com> wrote:

> U238? Geeeez why that?   Half life of 4.5 billion years!
>

From WA5CAB at cs.com Sun Nov 30 15:09:21 2014
From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Sun, 30 Nov 2014 15:09:21 -0500
Subject: [BoatAnchors] Radio active!
Message-ID: <b0877.1f6bf2b4.41acd371@cs.com>

The amount of U 238 was listed as 0.1 Ci, which will yield 3.7 x 10^9 0.5
MeV Alpha particles per second.

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

In a message dated 11/30/2014 11:46:02 AM Central Standard Time,
boatanchors at theporch.com writes:
> Dirt cheap. It's U235 that's rare and expensive, U238 is the common
> isotope.
>
> The amount needed to get (say) one radioactive decay per second is very
> very small. That's all you need to make the tube a reliable starter in the
> dark.
>
> On Nov 30, 2014, at 1:16 AM, Raymond Cote via BoatAnchors <
> boatanchors at theporch.com> wrote:
>
> >U238? Geeeez why that?   Half life of 4.5 billion years!
> >

From john.shriver at gmail.com Sun Nov 30 16:51:35 2014
From: john.shriver at gmail.com (John Shriver)
Date: Sun, 30 Nov 2014 16:51:35 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <b0877.1f6bf2b4.41acd371@cs.com>
References: <b0877.1f6bf2b4.41acd371@cs.com>
Message-ID: <BED2B74E-4B8D-4667-8B36-EAAA71500E92@gmail.com>

How many milli- or micrograms of U238 would that be?

On Nov 30, 2014, at 3:09 PM, Robert Downs WA5CAB via BoatAnchors <boatanchors at
theporch.com> wrote:

> The amount of U 238 was listed as 0.1 Ci, which will yield 3.7 x 10^9 0.5
> MeV Alpha particles per second.
>

From john.shriver at gmail.com Sun Nov 30 19:30:40 2014
From: john.shriver at gmail.com (John Shriver)
Date: Sun, 30 Nov 2014 19:30:40 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <b0877.1f6bf2b4.41acd371@cs.com>
References: <b0877.1f6bf2b4.41acd371@cs.com>
Message-ID: <E5DC1FBE-7E8D-46A2-B3E1-36B720C2AB24@gmail.com>

Done a bit of research/math to figure out how much U 238.

According to Wikipedia page on U 238, 1 mole of U 238 emits 3?10^6 alpha particles per second. A mole is 238 grams.

Katz noted in recent message: "Not 0.1 uCi? 3.7*10^3/ sec?" Which was a correct comment, it was 0.1 micro Curies in the DoD book. (See the Wikipedia page on the Curie.) So that's the number of alpha particles per second.

So dividing out, we're looking at about one one-thousandth of a mole. Which would be 0.24 grams.

Which seems rather a lot, but I suppose it was common after extracting the U 235. Well, we can find the density of Uranium -- 19.1 grams per cubic centimeter. Which is 0.0191 grams per cubic millimeter. Hmm, 0.24 grams is 12.5 cubic millimeters -- that's a pretty substantial sized chunk, for instance a rod 1mm x 1mm x 12.5 mm.

(Of course, this doesn't consider the subsequent decay chain, as the U 238 minus an alpha particle becomes Thorium 234. There's a long decay chain eventually ending at lead, and a lot of the steps have quite short half-lives.)

So who the heck is the tube manufacturer "EEVC" that used U 238? Never heard of them.

From WA5CAB at cs.com Sun Nov 30 19:48:09 2014
From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Sun, 30 Nov 2014 19:48:09 -0500
Subject: [BoatAnchors] Radio active!
Message-ID: <b4e2e.70f32830.41ad14c9@cs.com>

You're correct, of course. I was worrying about three other things and my

fingers did the walking and ignored the 1 x 10^-6. I didn't see the other msg.

Someone else suggested earlier that EEVC is English Electric Valve Company. Which at least sounds logical. Probably on a NATO contract.

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

In a message dated 11/30/2014 18:30:43 PM Central Standard Time, john.shriver at gmail.com writes:
> Done a bit of research/math to figure out how much U 238.
>
> According to Wikipedia page on U 238, 1 mole of U 238 emits 3?10^6 alpha
> particles per second. A mole is 238 grams.
>
> Katz noted in recent message: "Not 0.1 uCi? 3.7*10^3/ sec?" Which was a
> correct comment, it was 0.1 micro Curies in the DoD book. (See the
> Wikipedia page on the Curie.) So that's the number of alpha particles per second.
>
> So dividing out, we're looking at about one one-thousandth of a mole.
> Which would be 0.24 grams.
>
> Which seems rather a lot, but I suppose it was common after extracting the
> U 235. Well, we can find the density of Uranium -- 19.1 grams per cubic
> centimeter. Which is 0.0191 grams per cubic millimeter. Hmm, 0.24 grams is
> 12.5 cubic millimeters -- that's a pretty substantial sized chunk, for
> instance a rod 1mm x 1mm x 12.5 mm.
>
> (Of course, this doesn't consider the subsequent decay chain, as the U 238
> minus an alpha particle becomes Thorium 234. There's a long decay chain
> eventually ending at lead, and a lot of the steps have quite short
> half-lives.)
>
> So who the heck is the tube manufacturer "EEVC" that used U 238? Never
> heard of them.

From k1lky68 at gmail.com Sun Nov 30 20:27:50 2014
From: k1lky68 at gmail.com (Roy Morgan)
Date: Sun, 30 Nov 2014 20:27:50 -0500
Subject: [BoatAnchors] Radio active!
In-Reply-To: <E5DC1FBE-7E8D-46A2-B3E1-36B720C2AB24@gmail.com>
References: <b0877.1f6bf2b4.41acd371@cs.com>
 <E5DC1FBE-7E8D-46A2-B3E1-36B720C2AB24@gmail.com>
Message-ID: <890530CF-5B71-4EC2-A79C-80872C01CD32@gmail.com>

On Nov 30, 2014, at 7:30 PM, John Shriver via BoatAnchors <boatanchors at theporch.com> wrote:

> Done a bit of research/math to figure out how much U 238?. 0.0191 grams per cubic millimeter. Hmm, 0.24 grams is 12.5 cubic millimeters -- that's a pretty substantial sized chunk, for instance a rod 1mm x 1mm x 12.5 mm.

John,

Thank you for your calculations about U 238. It?s often refreshing to do a few numbers and discover we are somewhat off base from reasonable figuring - it gives us a chance to reconsider what we are doing.** I don?t think I have seen any voltage regulator tubes with half inch bars of Uranium in them. heheh

?Ah yes, Doctor Feynman, we can see that the O-ring will not work well if it is frozen.? ***

So I have some comments and a couple of questions:

- We understand that many military regulator tubes were made with some radioactive ?stuff? inside.
- We can understand that military applications might encounter very cold or very dark conditions (both of which can lead to difficult striking of regulator tubes).
- We read that a number of substances were used in these tubes.
- We now can figure out how many half lives of the substances have passed since the tubes were likely made, and estimate how much of the ?stuff? is left.

And we can ask:
- Did the early regulator tubes have this radioactive ?stuff? in them? To wit, the type 874 90-volt regulator whose striking voltage is 125 volts. This large 4-pin tube was pretty much obsolete by the mid 1930?s when the RAL/RAK power supply was designed using one. There may not have been much awareness of radioactive ?stuff? for use in tubes at that time.
- Is it only the military regulator tubes that had the ?stuff? in them?
- Do non-military regulator tube have this ?stuff? in them?

I offer for your consideration Morgan?s Law for Radioactive R-390 Meters (and Regulator Tubes):

DON?T BREAK THEM OPEN AND EAT THE INSIDES.

Roy

** A Related Story:

Years ago, all undergraduate civil engineering students at MIT had to take a course in surveying. The course was taught during the summer at a camp in East Machias Maine. The student surveyors were required to figure out the distance from a point on the shore out to a marker on a small island some distance from land. When asked how he made out, one student said:

?Yes Sir. I got 32.75 yards.?

Hmmm? about 33 yards? Are you on a baseball team?

"Why yes, Sir, I am.?

Ok, here?s a rock. Assuming you can throw it a hundred feet, throw this one onto the island,

(OOPS!)

The correct distance was 327.5 yards. He?d gotten the digits right but had not applied common sense to see that he?d slipped a decimal point.

*** This is a reference to Dr. Richard Feynman bringing to the accident board hearing after the Shuttle Challenger disaster a paper cup with ice and a bit of the suspect O-ring in it. He may have taken the summer surveying course since he got his BS at MIT in 1939.

Roy Morgan
RoyMorgan at alum.mit.edu
K1LKY Since 1958

From gumbear at pacbell.net Sun Nov 30 23:02:33 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Sun, 30 Nov 2014 20:02:33 -0800
Subject: [BoatAnchors] Radio active!
In-Reply-To: <b0877.1f6bf2b4.41acd371@cs.com>
References: <b0877.1f6bf2b4.41acd371@cs.com>
Message-ID: <1FDF04473EC946479A8FF1EF1EB55229@KB6NAX>

> The amount of U 238 was listed as 0.1 Ci, which will yield 3.7 x 10^9 0.5 MeV Alpha particles per second.

Gosh darn! Boatanchors has gone radioactive!!!

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant